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II \ \ \		uton disclosure cit	Shahram Mihan et al.							
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		U.S. PAT	ENT DOCUM	TENTS						
Examiner		Document	Vasua Data	NT		Sub-	Filing			
Initial		Number	Issue Date	Name	Class	Class	Date			
	AA	6,420,507	07/16/02	Kale et al.						
in	AB	6,723,675	04/20/04	Wang						
		FOREIGN P	ATENT DOC	TUMENTS						
		Document	Data	Country	C1	Sub-	Trans-			
		Number	Date	Country	Class	Class	lation			
W	AC	899,278	03/03/99	EP						
	AD	608,369	08/03/94	EP						
		OTHER (Including Auth	or, Title, Date	, Pertinent Pages, etc	;.)					
N	AE	G. Kraus et al., "A Meth	od for Charact	erization of Long-Cl	nain Bra	anched P	olymers by			
	AE	GPC and Intrinsic Viscos	sity," <u>J. Polym</u> e	er Sci.: Symposium I	No. 43,	p. 329-3	43 (1973)			
	AF	¹³ C NMR Spectroscopy and	M. Pollard et al., "Observation of Chain Branching in Polyethylene in the Solid State and Melt via 13C NMR Spectroscopy and Melt NMR Relaxation Time Measurements," Macromolecules, Vol.							
10		[37(3), p. 813,825 (2004)	[37(3), p. 813,825 (2004)							
\sim		R. Koopmans, "Extrudate S	R. Koopmans, "Extrudate Swell of High Density Polyethylene. Part I: Aspects of Molecular							
	AO	Structure and Rheological C	Structure and Rheological Characterization Methods," Polymer Engineering and Science, Vol.							
	 		[32(23), p. 1741-1749 (1992)							
\sim	AH	J. Vega et al., "Small-Ampli	J. Vega et al., "Small-Amplitude Oscillatory Shear Flow Measurements as a Tool To Detect Very Low Amounts of Long Chain Branching in Polyethylenes," Macromolecules, Vol. 31(11), p. 3639-							
11/	All		in Branching in	Polyethylenes, <u>Iviacror</u>	nolecule	<u>ຘ</u> , Vol. 31	(11), p. 3639-			
			Wood-Adams et al. "Effect of Molegular Structure on the Linear Viscos leating							
	AI	Behavior of Polyethylene	P. Wood-Adams et al., "Effect of Molecular Structure on the Linear Viscoelastic Behavior of Polyethylene," Macromolecules, Vol. 33(20), p. 7489-7499 (2000)							
	1			rty Relationships of Linear and Long-Chain Branched Metallocene						
()	LAJ	High-Density Polyethylenes	Characterized h	ups of Lincar and Long		ATICIEU	Metanocene			
, –		Macromolecular Chemistry	and Physics. Vo	l. 207. p. 26-38 (2006)		allo,				
\cap	1	W. Kaminsky et al., "Pol				d Olefins	hv			
1	AK	Metallocene Catalysis," R	Macromol, Syn	np., Vol. 226, p. 25-	34 (200)5)	,			
M	1	K. Klimke et al., "Optimisat					hv Melt-State			
11	AL	¹³ C NMR Spectroscopy," M	acromol, Chem.	Phys., Vol. 207, p. 38	2-395 (2	2006)	· ·			
\sim	AM	S. Bin Wadud et al., "She	ear and extensi	onal rheology of spa	rsely br	ranched n	netallocene-			
7	DATA!	catalyzed polyethylenes,"	<u>J. Rheol</u> ., Vol	l. 44(5), p. 1151-116	7 (200	0)				
	AN	D. Yan et al., "Effect of I	ong chain bran	ching on rheological			etallocene			
10		polyethylene," Polymer,	Vol. 40, p. 173	7-1744 (1999)		•				
F. Stadler eyal., "Influence of type and content of very long comonomers on long-chain branching										
of ethene /a-olefin copolymers," Macromolecules, Vol. 39(4), p. 1474-1500 (2006)										
Examine Date Considered Date Considered										
EXAMINER		if reference considered, whether or not o	citation is in confo	rmance with MPEP § 60	9.		,			
Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.										
T. T										

· L		FC	DRM PTO-1449	Atty Docket LU 6084 (US) Applicant	Serial No. 10/538,540					
INFO	RMA	ATIOIT	DISCLOSURE CITATION		m Miham et al. Group Art Unit					
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)										
M	BA		J. Janzen et al., "Diagnosing long-chain branching in polyethylenes," <u>Journal of Molecular Structure</u> , Vol. 485-486, p. 569-584 (1999)							
R	BB		C. Gabriel et al., "Analytical and rheological characterization of long-chain branched metallocene-catalyzed ethylene homopolymers," Polymer, Vol. 43, p. 6383-6390 (2002)							
a	BC		B. Zimm et al., "The Dimension of Chain Molecules Containing Branches and Rings," The Journal of Chemical Physics, Vol. 17(12), p. 1301-1314 (1949)							
m	BD		Barth, H. G., & Mays, J. W. (1991). Modern methods of polymer characterization. Chemical analysis, v. 113. New York: Wiley.							
A	BE		N. Hadjichristidis et al., "Well-Defined, Model Long Chain Branched Polyethylene. 1. Synthesis and Characterization," Macromolecules, Vol. 33(7), p. 2424-2436 (2000)							
a	BF		Catalysts," Contribution in Organometallic Catalysts and Olefin Polymerization by R. Blom et al., p. 335-345 (2001)							
re	BG	E	J. Stange et al., "Rheological behavior of blends from a linear and a long-chain branched polypropylene," J. Rheol., Vol. 49(5), p. 1059-1079 (2005)							
A-	BH		H. Münstedt et al., "Rheological measuring techniques and their relevance for the molecular characterization of polymers," J. Non-Newtonian Fluid Mech., Vol. 128, p. 1-8 (2005)							
1	BL		The pom-pom polymer." J. Rheol., Vol. 42(1), p. 81-110 (1998)							
n	BJ		I. Vittorias et al., "Detection and quantification of industrial polyethylene branching topologies via Fourier-transform rheology, NMR and simulation using the Pom-pom model," Rheol. Acta. Vol. 46, p. 321-340 (2007)							
A	BK		E. van Ruymbeke et al., "A sensitive method to detect very low levels of long chain branching from the molar mass distribution and linear viscoelastic response," <u>J. Rheol.</u> , Vol. 49(6), p. 1-18 (2005)							
M	BL		S. Trinkle et al., "Van Gurp-Palmen Plot II-classification of long chain branched polymers by their topology," Rheol Acta: Vol. 41, p. 103-113 (2002)							
1	ВМ		D. Lonse et al., "Well-Defined, Model Long Chain Branched Polyethylene. 2. Melt Rheological Behavior," Macromolecules, Vol. 35(8), p. 3066-3075 (2002)							
In	BN		Viscoelastic flow properties in shear," Rheol Acta, Vol. 41, p. 232-244 (2002)							
10	B 0		B. Bersted et al., "Prediction of Rheological Behavior of Branched Polyethylene from Molecular Structure," Journal of Applied Polymer Science, Vol. 26, p. 1001-1014 (1981)							
Examine \	BP	7	B. Bersted, "On the Effects of Very Low Lev Behavior in Polyethylene," <u>J. of Applied Poly</u>	mer Science, Vol. 30, p.	3751-3765 (1985)					
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.										

FORM PTO-1449 INFORMATION DISCLOSURE CITATION	Atty Docket LU 6084 (US) Applicant Shahrai Filing Date June 10, 2005	Serial No. 10/538,540 Im Mihan et al. Group Art Unit 1713						
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)								
	H. Park et al., "Influence of long-chain branching on time-pressure and time-temperature shift factors for polystyrene and polyethylene," Rheol Acta, Vol. 46, p. 153-159 (2006)							
	C. Gabriel et al., "Influence of molecular structure on rheological properties of polyethylenes," Rheol Acta, Vol. 37, p. 7-20 (1998)							
	G. Schlatter et al., "Fourier Transform Rheology of Branched Polyethylene: Experiments and Models for Assessing the Macromolecular Architecture," Macromolecules, Vol. 38, p. 6492-6544 (2005)							
H. Münstedt et al., "Influence of molecompolyethylenes; Part II. Elongational be	H. Münstedt et al., "Influence of molecular structure on rheological properties of polyethylenes; Part II. Elongational behavior," Rheol Acta, Vol. 37, p. 21-29 (1998)							
CE I. Vittorias et al., "Detection of Long-Chair Rheology and Finite Element Simulations,"	I. Vittorias et al., "Detection of Long-Chain Branching in Polylolefins via Fourier-Transform Rheology and Finite Element Simulations," Macromol. Mat. Eng., p. 115-120 (2007)							
G. Georgiou, "Stick-Slip Instability," Polymer Processing Instabilities edited by S. Hatzikiriakos & S. Migler, Dekker, NY, p. 161-206 (2005)								
S. Wang et al., "Exploring molecular origins of sharkskin, partial slip, and slope change in flow curves of linear low density polyethylene," J. Rheol., Vol. 40(5), p. 875-898 (1996)								
S: Wang et al., Stick-slip transition in capillary flow of linear polyethylene: 3. Surface conditions," Rheol Acta, Vol. 36, p. 128-134 (1997)								
Examine \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Date Considered	10 kg 1287						
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.								